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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/750,464	12/28/2000	Michael S. Borella	00-683	6594

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EXAMINER

HAN, CLEMENCE S

ART UNIT	PAPER NUMBER
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2665

8

DATE MAILED: 05/20/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

09/750,464

Applicant(s)

BORELLA ET AL.

Examiner

Clemence Han

Art Unit

2665

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 12/28/2000.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-15 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-5, 9-13 and 15 is/are rejected.
- 7) ☒ Claim(s) 6-8 and 14 is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date _____.
- 4) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date: _____.
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: _____.

DETAILED ACTION

Information Disclosure Statement

1. An initialed and dated copy of Applicant's IDS form 1449, Paper No. 7, is attached to the instant Office action.

Claim Rejections - 35 USC § 103

2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

3. Claim 1-5, 9-13 and 15 are rejected under 35 U.S.C. 103(a) as being unpatentable over Allan (US Patent 6,584,096) in view of Neves et al. (US Patent 6,691,227).

In regarding to claim 1, Allan teaches a method for address management of nodes, said method comprising the steps of: receiving a registration request message from a first node 28; and assigning at least one globally unique port number to said first node 30 (Column 2 Line 2-4). Allan, however, does not teach node as mobile node. Neves teaches mobile node 330. It would have been obvious to one skilled in the art to modify Allan to be used with mobile nodes as taught by Neves in order to increase mobility of network devices.

In regarding to claim 2, Allan teaches transmitting said at least one globally unique port number to said first mobile node 30.

In regarding to claim 3, Allan teaches assigning a network address to said first mobile node; and transmitting said network address and said at least one globally unique port number to said first mobile node (Column 8 Line 40–48).

In regarding to claim 4, Allan teaches said network address as an Internet Protocol (IP) address 68.

In regarding to claim 5, Allan teaches said network address be shared with a second node (Column 1 Line 66 – Column 2 Line 4). Allan, however, does not teach node as mobile node. Neves teaches mobile node 330. It would have been obvious to one skilled in the art to modify Allan to be used with mobile nodes as taught by Neves in order to increase mobility of network devices.

In regarding to claim 9, Neves teaches said registration request message including a care-of address for said first mobile node (Figure 4).

In regarding to claim 10, Neves teaches associating said care-of address with said at least one globally unique port number (Figure 4).

In regarding to claim 11, Neves teaches assigning a network address to said first mobile node; and associating said care-of address with said network address and said at least one globally unique port number (Figure 4).

In regarding to claim 12, Neves teaches receiving data packets destined for said network address and one of said at least one globally unique port number; and forwarding said data packets to said care-of address (Figure 3).

In regarding to claim 13, Allan teaches a system for address management of nodes, said nodes including at least a first and a second node, said system comprising: a hone agent 12, said home agent transmitting registration reply messages in response to valid registration request messages 30; and a database accessible by said home agent, said database containing at least a first data record and a second data record, said first data record identifying a first network address and a first set of one or more globally unique port numbers for said first node, said second data record identifying a second network address and a second set of one or more globally unique port numbers for said second node (Column 1 Line 66 – Column 2 Line 4). Allan, however, does not teach node as mobile node. Neves teaches mobile node 330. It would have been obvious to one skilled in the art to modify Allan to be used with mobile nodes as taught by Neves in order to increase mobility of network devices.

In regarding to claim 15, Neves teaches said first data record including a first care-of address for said first mobile node, said first care-of address being different from said first network address (Figure 4).

Allowable Subject Matter

4. Claim 6–8 and 14 objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Conclusion

5. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

The following patents are cited to further show the state of the art with respect to the address management in general.

U.S. Patent 6,549,538 to Beck et al.

U.S. Patent 6,636,498 to Leung

U.S. Patent 6,157,950 to Krishnan

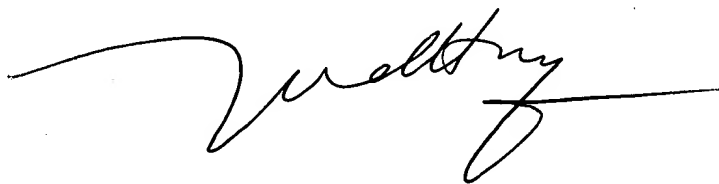
Any inquiry concerning this communication or earlier communications from the examiner should be directed to Clemence Han whose telephone number is (703) 305-0372. The examiner can normally be reached on Monday-Friday 8 to 5.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Huy Vu can be reached on (703) 308-6602. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

C. H.

Clemence Han
Examiner
Art Unit 2665

A handwritten signature in black ink, appearing to read 'Huy D. Vu', with a long horizontal stroke extending to the right.

HUY D. VU
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 2600